UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P. D. Rey. 1450

P O Box 1450 Alexandria, Virgima 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

5642 7590 03/12/2008
SCIENTIFIC-ATLANTA, INC.
INTELLECTUAL PROPERTY DEPARTMENT
5030 SUGARLOAF PARKWAY
L AWRENCEVII L E GA 30044

EXAMINER				
SHIVERS, ASHLEY L				
ART UNIT PAPER NUMBER				
2619				
DATE MAILED: 03/12/2008				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/829,568	04/22/2004	William D. Woodward JR.	A-8799	6345	
TITLE OF INVENTION: RATE LIMITED CONTROL MECHANISM FOR MPEG PCR DEJITTERING					

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/12/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NO THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notifical	form should be used to correspondence including a below or directed oth tions.	or transmitting ig the Patent, ad ierwise in Block	the ISSI lvance o : 1, by (JE FEE and PUBLICATI rders and notification of r a) specifying a new corres	ON FEE (if requi- naintenance fees w pondence address;	red). I rill be and/or	Hocks 1 through 5 st mailed to the current (b) indicating a sepa	nould be completed whe correspondence address trate "FEE ADDRESS" f
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			Feet	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
INTELLECTUA 5030 SUGARLO	7590 03/12 ATLANTA, INC. L PROPERTY DE DAF PARKWAY			Lbe	Cer	tificate	of Mailing or Trans	mission g deposited with the Unite t class mail in an envelog above, or being facsimi ate indicated below.
LAWRENCEVI	LLE, GA 30044							(Depositor's name
								(Signature
								(Data
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/829,568	04/22/2004			William D. Woodward JR			A-8799	6345
				OR MPEG PCR DEJITTE				-
APPLN, TYPE	SMALL ENTITY	ISSUE FEE I	DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	SFEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440		\$300	\$0		\$1740	06/12/2008
EXAM	INER	ART UNI	Т	CLASS-SUBCLASS				
SHIVERS,		2619		370-516000				
I. Change of correspondence address or indication of "Fee Address" (37 CFR 1.851). Change of correspondence address for Change of Correspondence Address from PIOSB/122) and Lanched. The Address' indication for "Fee Address" indication from PITOSB/127 set 0.30-20 or more cent) attached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON			ndence n stomer	usted, no name win de printed.				
	ess an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no a pletion of this for	assignee m is NO	data will appear on the p T a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assign assignment. and STATE OR C	OUNT	RY)	ocument has been filed for the superity Government
4a. The following fee(s):	are submitted:			b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038 authorized to char	is atta	ched. required fee(s), any de	
	s SMALL ENTITY state	is. See 37 CFR I		☐ b. Applicant is no lon				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be tes Patent and Tr	accepte ademark	d from anyone other than to Office.	he applicant; a regi	stered a	attorney or agent; or th	e assignee or other party
Authorized Signature					Date			
Typed or printed name					Registration N			
This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C itality is governed by 35 I application form to the ons for reducing this but irginia 22313-1450. DC 13-1450.	EFR 1.311. The ir U.S.C. 122 and USPTO. Time rden, should be s O NOT SEND FE	nformati 37 CFR will vary ent to th ES OR	on is required to obtain or r 1.14. This collection is est r depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by t imated to take 12 i idual case. Any co r, U.S. Patent and D'THIS ADDRESS	he publ minutes mment Traden i. SENI	ic which is to file (and to complete, includin s on the amount of tir ark Office, U.S. Dep D TO: Commissioner	by the USPTO to proces g gathering, preparing, as ne you require to comple artment of Commerce, P.6 for Patents, P.O. Box 145

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UNITED STATES PATENT AND TRADEMARK OFFICE

NITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Offic Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virgima 22313-1450 www.uspto.gov

DATE MAILED: 03/12/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/829,568	04/22/2004	William D. Woodward JR.	A-8799	6345
5642 75	90 03/12/2008		EXAM	IINER
SCIENTIFIC-AT	LANTA, INC.		SHIVERS,	ASHLEY L
	PROPERTY DEPART	TMENT	ART UNIT	PAPER NUMBER
5030 SUGARLOAF PARKWAY LAWRENCEVILLE, GA 30044			2619	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 994 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 994 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/829,568	WOODWARD, WILLIA	M D.
xaminer	Art Unit	
ASHLEY L. SHIVERS	2619	

The MALING DATE of this communication appears on I All claims being allowable. PROSECUTION ON ITHE MEETITS IS (OR REI herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other NOTICE OF ALLOWABILITY IS NOT, A GRANT OF PATENT RICHITS of the Office or YOUNG BUILD BY the applicant. See 37 CFR 1.313 and MP	MAINS) CLOSED in this application. If not included appropriate communication will be mailed in due course. THIS This application is subject to withdrawal from issue at the initial
 This communication is responsive to <u>Application filed on 4/22/2004</u> 	•
 The allowed claim(s) is/are <u>1-20</u>. 	
International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this controled below. Failure to timely comply will result in ABANDOMMENT of	ceived. ceived in Application No have been received in this national stage application from the communication to file a reply complying with the requirements
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. No INFORMAL PATENT APPLICATION (PTO-152) which gives reasor (a) including changes required by the Notice of Draftsperson's Pat 1) hereto or 2) to Paper No./Mail Date	n(s) why the oath or declaration is deficient. mitted. ent Drawing Review (PTO-948) attached ment / Comment or in the Office action of roud be written on the drawings in the front (not the back) of raccording to 37 CFR 1.121(d). OLOGICAL MATERIAL must be submitted. Note the
Attachment(s) 1.	5. Notice of Informal Patent Application 6. Interview Summary (PTO-413), Paper No. Mail Date 7. Examiner's Amendment/Comment 8. Examiner's Statement of Reasons for Allowance 9. Other

DETAILED ACTION

Reasons for Allowance

- Claims 1-20 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

Woodhead et al. (U.S. Patent No. 5,640,388) teaches of removing jitter and correcting timestamps in a packet stream by receiving the packets with timestamps at a buffer at an intermediate site. From there the timestamps output at a controlled rate. Woodhead does not teach of averaging the timestamps and then taking the average of that average.

Christos Tryfonas and Anjuan Varma's "Restamping Approach to Clock

Recovery in MPEG-2 Systems Layer" teaches of receiving MPEG-2 packets with PCR
timestamps and sending them to the phase-locked loop. The article fails to teach of
sending the variable rate timing signal through another loop to get the stable timing
signal.

Dara (U.S. Patent No. 5,184,350) teaches of synthesizing clock signals at the first phase-locked loop and monitoring them at a second phase-locked loop. The second phase-locked loop can also synthesize the clock signal. The output goes into another phase-locked loop circuit, however the clock signals are not timestamps for received packets and that changes the scope of the art to one different than the subject matter claimed in this instant application.

Art Unit: 2619

Therefore, the prior art of record fails to anticipate or render obvious the claimed combination of a method or system for guaranteeing an upper bound on output jitter while maintaining maximum loop bandwidth.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any response to this action should be faxed to (571) 273-8300 or mailed to:

Commissioner of Patents, P.O. Box 1450 Alexandria, VA 22313-1450

Hand delivered responses should be brought to: Customer Service Window Randolph Building 401 Dulany Street Alexandria. VA 22314

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ASHLEY L. SHIVERS whose telephone number is (571)270-3523. The examiner can normally be reached on Monday-Thursday 8:00-6:00 EST.

Art Unit: 2619

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chirag Shah can be reached on (571) 272-3144. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ashley L Shivers/ Examiner, Art Unit 2619 2/20/2008

/Chirag G Shah/ Supervisory Patent Examiner, Art Unit 2619